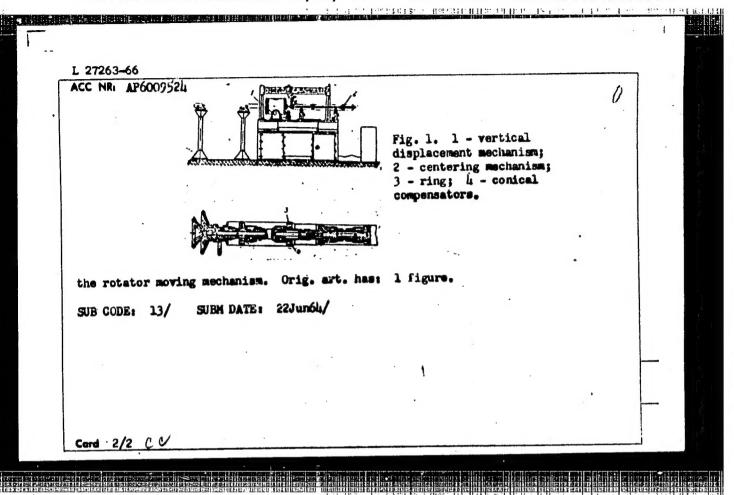
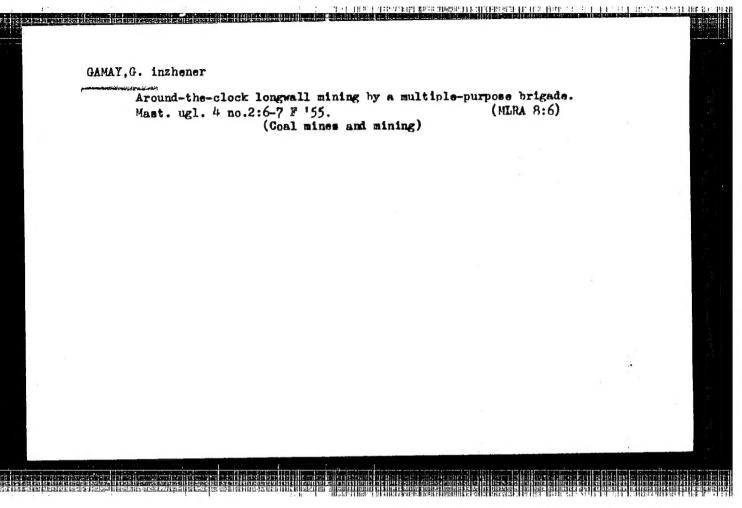
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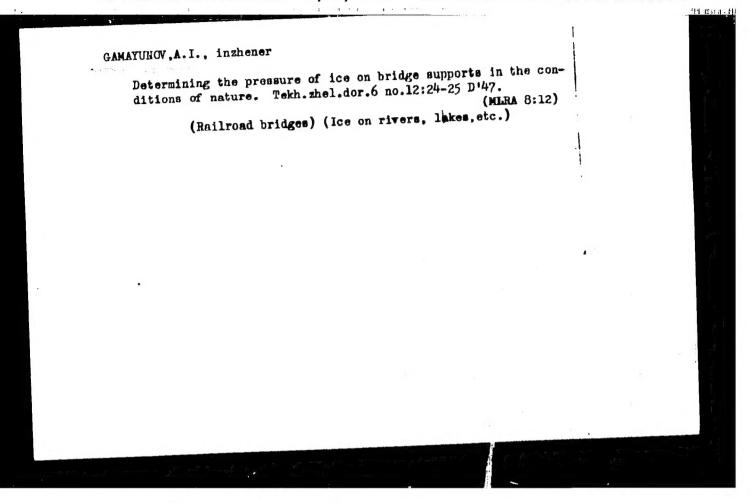
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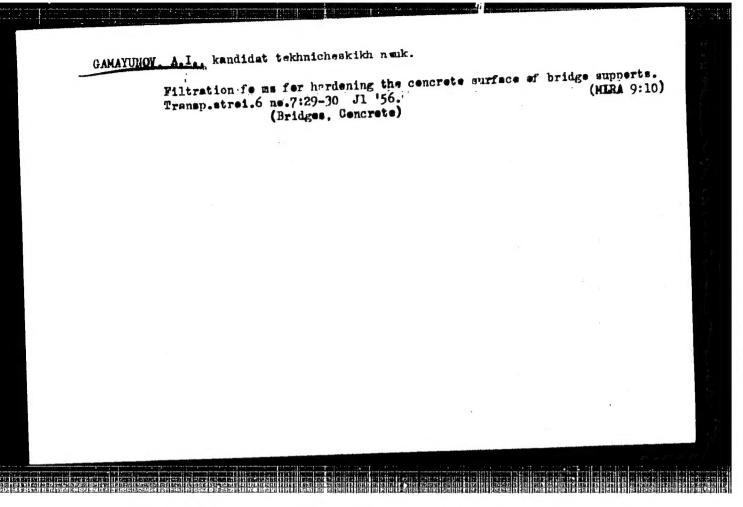
AUTHORS: Kiselev, S. N.; Dedkov, L. K.; Schetchikov, B. A.; Pichugin, V. S.; Prosvirin, A. P.; Gamatudinov, B. I. ORG: none TITLE: Automatic welder. Class 21, No. 179h02 SOUNCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 5, 1966, h8 TOPIC TAGS: welder, butt welding, seam welding ABSTRACT: This Author Certificate presents an automatic welder, using a nonmelting electrode in a protective atmosphere for ring and seam pipe welding. The welder includes an inlet port, ring-shaped rotator, welding head, system of roller supports, mechanisms for moving and correcting the welding head, electrode wire supplies, programmed current switching, and remote control equipment. To permit welding of variable diameter pipe and welding of flanges and rings, the rotator is equipped with a mechanism for displacement in the vertical plane, allowing a rotator body angle of 0105° wish respect to the horisontal. The centering mechanism consists of a fixture which is equipped with grips and shirming rings and a conical screw-driven compensator (see Fig. 1). A second feature has two perpendicular worms as		L 27263-66 EWP(k)/EWT(d)/EWT(m)/EWP(h)/T/EWP(1)/EWP(v)/EWP(t) JD/HM ACC NR: AP6009524 SOURCE CODE: UR/OL13/66/000/005/0048/0048	
SOUNCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 5, 1966, 48 TOPIC TAGS: welder, butt welding, seam welding ABSTRACT: This Author Certificate presents an automatic welder, using a nonmelting electrode in a protective atmosphere for ring and seam pipe welding. The welder includes an inlet port, ring-shaped rotator, welding head, system of roller supports, mechanisms for moving and correcting the welding head, electrode wire supplies, programmed current switching, and remote control equipment. To permit welding of variable diameter pipe and welding of flanges and rings, the rotator is equipped with a mechanism for displacement in the vertical plane, allowing a rotator body angle of 0105° with respect to the horizontal. The centering mechanism consists of a fixture which is equipped with grips and shirming rings and a conical screw-driven compensator (see Fig. 1). A second feature has two perpendicular worms as	•	AUTHORS: Kiselev, S. N.; Dedkov, L. K.; Schetchikov, B. A.; Pichugin, V. S.; Prosvirin, A. P.; Gamatudinov, B. I.	
SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 5, 1966, 48 TOPIC TAGS: welder, butt welding, seam welding ABSTRACT: This Author Certificate presents an automatic welder, using a nonmelting electrode in a protective atmosphere for ring and seam pipe welding. The welder includes an inlet port, ring-shaped rotator, welding head, system of roller supports, mechanisms for moving and correcting the welding head, electrode wire supplies, programmed current switching, and remote control equipment. To permit welding of variable diameter pipe and welding of flanges and rings, the rotator is equipped with a mechanism for displacement in the vertical plane, allowing a rotator body angle of 0105° with respect to the horisontal. The centering mechanism consists of a fixture which is equipped with grips and shirming rings and a conical screw-driven compensator (see Fig. 1). A second feature has two perpendicular worms as		ORG: none	
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ABSTRACT: This Author Certificate presents an <u>automatic welder</u> , using a nonmelting electrode in a protective atmosphere for ring and seam pipe welding. The welder includes an inlet port, ring-shaped rotator, welding head, system of roller supports, mechanisms for moving and correcting the welding head, electrode wire supplies, programmed current switching, and remote control equipment. To permit welding of variable diameter pipe and welding of flanges and rings, the rotator is equipped with a mechanism for displacement in the vertical plane, allowing a rotator body angle of 0105° with respect to the horisontal. The centering mechanism consists of a fixture which is equipped with grips and shirming rings and a conical screwdriven compensator (see Fig. 1). A second feature has two perpendicular worms as		SOUNCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 5, 1966, 48	
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Cord 1/2		of a fixture which is equipped with grips and shirming rings and a conical screw-	
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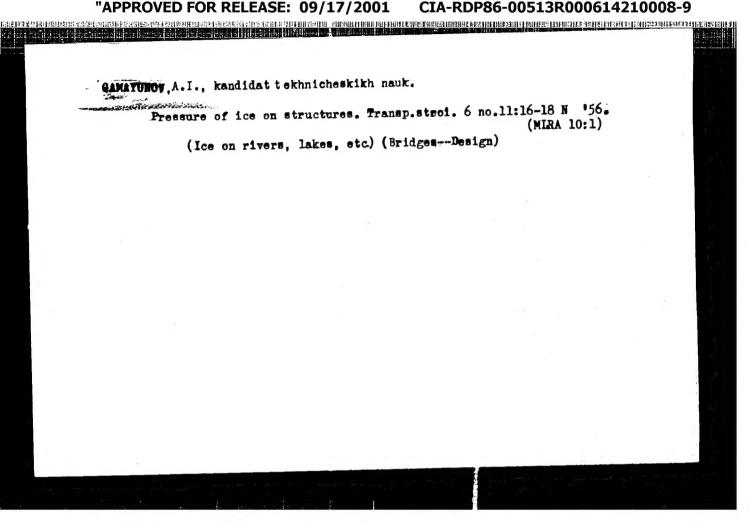




GAMAYUNOV,	A. I.	islands for supports. 1	USER/Engineering	the subject of the information and much further shows diagrams	The question was 1926 during the celectric Station,	Tekh Zhele	28 ports," A.	UBER/Engineering Ice Bridges - F	
		measuring the pi Experiments were the Dael	bering (Contd)	aveilable is r research is of apparatus	first studi	Zheleznykh Dorog" No 4	the Pressure of Ice I. Gemayunov, Engr,	ering s - Foundations and Piers	
	2874	conducted on the Dneprov or River at Kiev.	Apr 1947	gat:	seriously in 1924 - the Volkhov Hydro-of much research on of the third serious abutment.		Against Bridge Sup- 22 np	7.0rs	Control of the state of the sta







KHLEBNIKOV, Ye.L. professor; ANDREYEV, O.V., kandidat ekhnicheskikh nauk; BEGAM, L.G., kandidat tekhnicheskikh nauk; GAMAYUNOV, A.I., kandidat tekhnicheskikh nauk; DUCHINSKIY, B.J., kandidat tekhnicheskikh nauk; DUCHINSKIY, B.J., kandidat tekhnicheskikh nauk; KAZEY, I.I., kandidat tekhnicheskikh nauk; LUGA, A.A., kandidat tekhnicheskikh nauk EYALIN, N.B., kandinat tekhnicheskikh nauk; LUGA, A.A., kandidat tekhnicheskikh nauk; EYALIN, N.B., kandidat tekhnicheskikh nauk; POL'YEVKO, V.P., kandidat tekhnicheskikh nauk; PROKOPOVICH, X.G., kandidat tekhnicheskikh nauk; STRELETSKIY, N.N., kandidat tekhnicheskikh nauk; STRELETSKIY, N.N., kandidat tekhnicheskikh nauk; SHELESTEN CO, L.P., kandidat tekhnicheskikh nauk; SHELESTEN CO, L.P., kandidat tekhnicheskikh nauk; SHELESTEN CO, L.P., kandidat tekhnicheskikh nauk; ZELEVICH, P.M., inzhener; CHEGO-DAYEV, N.N.; BOEROVA, Ye.N., tekhnicheskiy redaktor.

[Technical specifications for designing bridges and pipes for railroads of a normal gauge (TUPM-56). Effective July-1: 1957 by order of Ministry of Means of Communication and the Ministry of Transportation Construction. September 15, 1956] Tekhnicheskie is sloviia proektirovaniia mostov i trub na shelesnykh dorogakh normal'nei kolei (TUPM-56). Wedeny v kachestye vremennykh s l iiulia 1957 g. prilazom Ministerstva putei soobshcheniia i Ministerstva transportnogo stroitel stva of 15 sentiabria 1956 g. No.250/TeZ/213. Moskva, Gos. transp.zhel-dor.isd-vo. 1957. 221 p. (MIRA 10:5)

1. Russia (1923- U.S.S.R.). Ministerstvo pricy soobshcheniya. (Railread bridges--Design)

14(10)

SOV/98-59-6-11/20

AUTHOR:

Gamayunov, A.I., Candidate of fechnical Sciences

TITLE:

Ice Pressure on Inclined Walls

PERIODICAL:

Gidrotekhnicheskoye stroitel's wo, 1959, Nr 6.

pp 42--43 (USSR)

ABSTRACT:

The author gives a formula for calculating the ice

pressure on inclined walls.

 $M_{X} = \frac{q}{\lambda} e^{-\lambda x} \sin \lambda x$

The formula is derived from the formula elaborated by the author for determining the pressure of ice on the inclined ice-breaking eige of a railway bridge pillar. It was published in "Transportnoye stroitel" stvo" Nr 4 (1955). These formulas have also been

stvo" Nr 4 (1955). These formulas have also been published in the Tekhnicheskiy usloviya proyektirovaniya mostov i trub na zheliznykh dorogakh normal'noy kolei (TUPM-56) (Speci icationsfor Planning

Card 1/2

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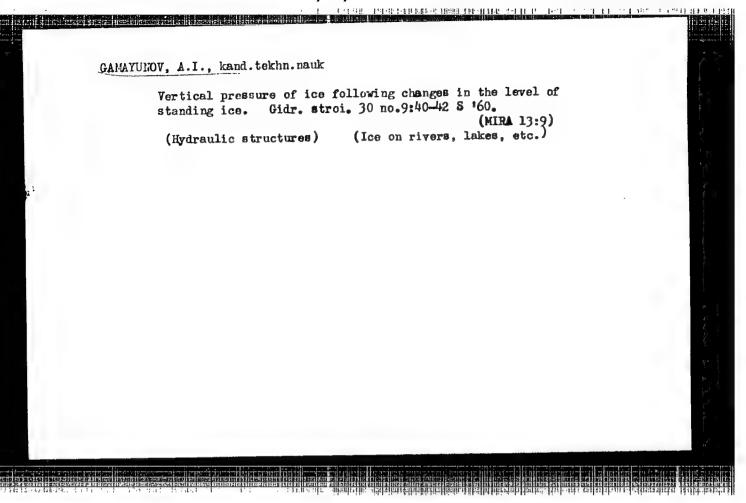
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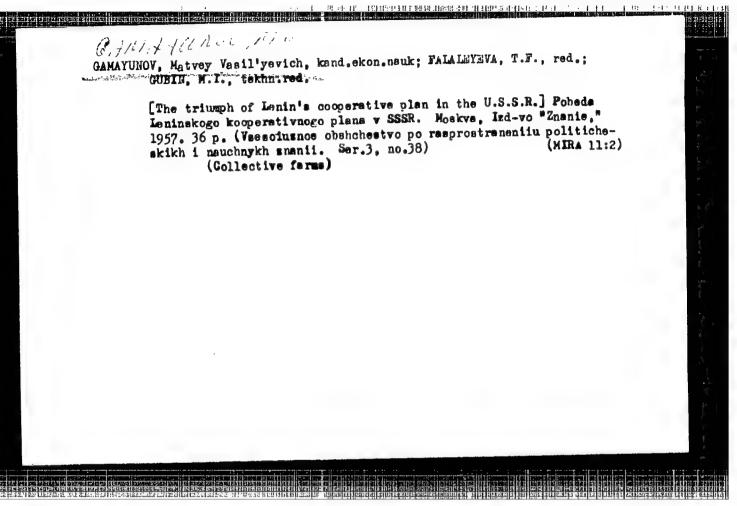
507/98-59-6-11/20

Ice Pressure on Inclined Walls

Bridges and Culverts on Standard Gage Railways - TUPM-56). There are 2 diagrams and 2 tables.

Card 2/2





BONDAREVA, I.I., dots., prepodavatel; GAMAYUNOV, M.V., dots., kand. nauk, prepodavatel; GOL'DMAN, R.Ya., kand. nauk, prepodavatel; ZHMINDKOV, A.P., kand. nauk, prepodavatel; KALININA, V.H., kand. nauk, prepodavatel; LIFAR, G.G., prepodavatel; MART'YANOVA, L.P., kand. nauk, prepodavatel; NEZNANOV, S.V., dots., kand. nauk, prepodavatel; SAIAY, I.G., dots., kand. nauk, prepodavatel; SASKOVETS, Ye.L., dots., kand. nauk, prepodavatel; ZHNIN, V., red.; DANILINA, A., tekhn. red.

[The party is the organizer of the collective farm system] Partiia - organizator kolkhoznogo stroia. Moskva, Gos. izd-vo polit. lit-ry, 1958. 190 p. (MIRA 11:8)

1. Kafedra marksizma-leninizma Moskovskoy ordena Lenina sel'skokhozyaystvennoy akademii imeni K.A. Timiryazeva (for all except Zenin, Danilina).

(Collective farms)

CIA-RDP86-00513R000614210008-9 "APPROVED FOR RELEASE: 09/17/2001

SOV-3-58-9-11/36

AUTHOR:

Gamayunov, M.V., Docent, Moscow Agricultural Academy imeni

K.A. Timiryazev

TITLE:

Studying the History of the Collectivization of Agriculture

(Izucheniye istorii kollektivizatsii sel'skogo khozyaystva)

PERIODICAL:

Vestnik vysshey shkoly, 1958, Nr 9, pp 47-50 (USSR)

ABSTRACT:

In May 1958, an Intervuz Scientific Conference, organized by the USSR Ministry of Higher Education, took place at Rostov University. The conference theme was: "The World-Wide Historical Significance of the KPSS Experiences in Collectivization of Agriculture". It was attended by over 300 instructors of higher educational institutions from Moscow, Leningrad, Rostov, Chelyabinsk, Sverdlavsk, and representatives from Kazakhstan, Latvia, Lithuania, Estonia and other republics. Instructors probably experienced the greatest difficulty in elucidating the question of how the Party worked out its tactical line in respect to the Kulaks, in particular, how the policy of liquidating the Kulaks as a class was carried out. This was dealt with in the report of Docent P.V. Semernin, Head of the Chair for KPSS History, Rostov University. A decisive stage was during the activity

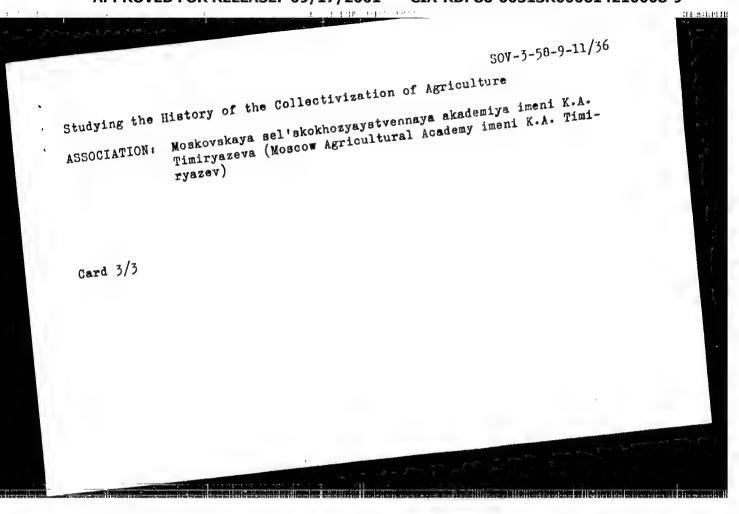
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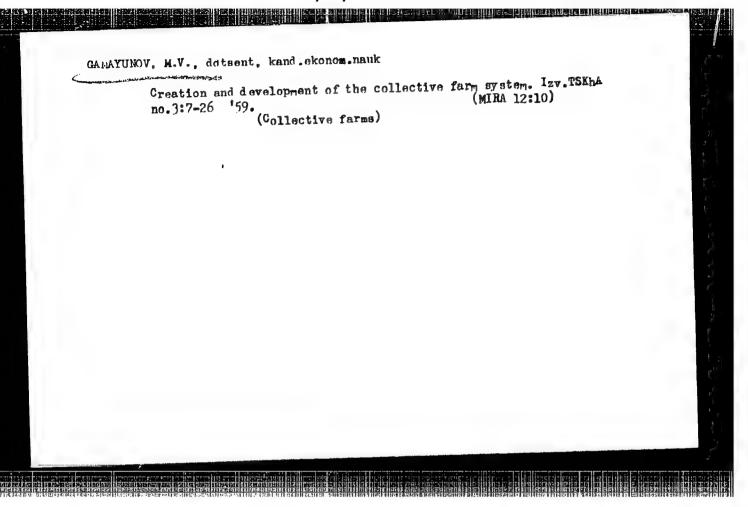
SOV-3-58-9-11/36

Studying the History of the Collectivization of Agriculture

of a commission for the all-round collectivization, established in December 1929. The commission came to the conclusion that the liquidation of the Kulaks as a class was historically unavoidable. Candidate of Historical Sciences Liu Yun-an' (Institute of Sinology, USSR AS) reported on the organizing of farms into cooperatives. (Rostov-Don) dealt with the economical and political pre-Dogent n.I. Kovrov suppositions of all-round collectivization while Professor of the Academy of Social Sciences attached to the TsK KPSS, A.V. Bolgov, spoke on the new stage in the development of the kolkhoz regime. Candidate of Historical Sciences M.N. Gioyev, instructor at the North Csetin Pedagogical Institute, informed the audience on the experience in collectivization of agriculture in the North-Castin ASSR. D.D. Angel'yev, Director of the Sovkhoz "Gigant", Rostov Oblast', and G.I. Romanenko, Secretary of the Taganrog village raykom KPSS also gave reports. The general opinion of the conference participants was that similar conferences should be convened periodically. This opinion was supported by S.A. Yudachev, USSR Deputy Minister of Higher Education.

Card 2/3

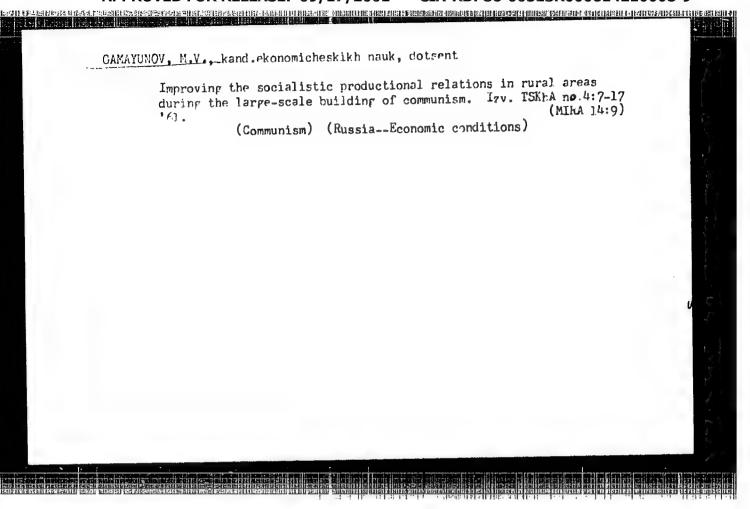


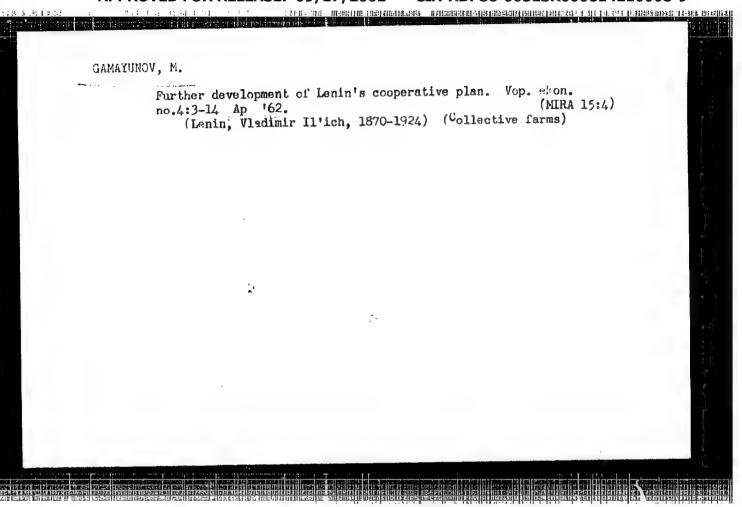


GAMAYUNOV, Matvey Vasil'yevich; LEONOVA, T.S., red.; SAVCHENKO, Ye.V., tekhn.red.

[Merging of the two forms of socialist property] Sblizhenie dvukh form sotsialisticheskoi sobstvennosti. Moskva, Izd-vo "Znanie," 1961. 35 p. (Vsesoiuznoe obshchestvo po rasprostraneniu politicheskikh i nauchnykh znanii. Ser.5, Sel'skoe khoziaistvo, nc.7) (MIRA 14:5)

(Socialist property) (Collective farms)

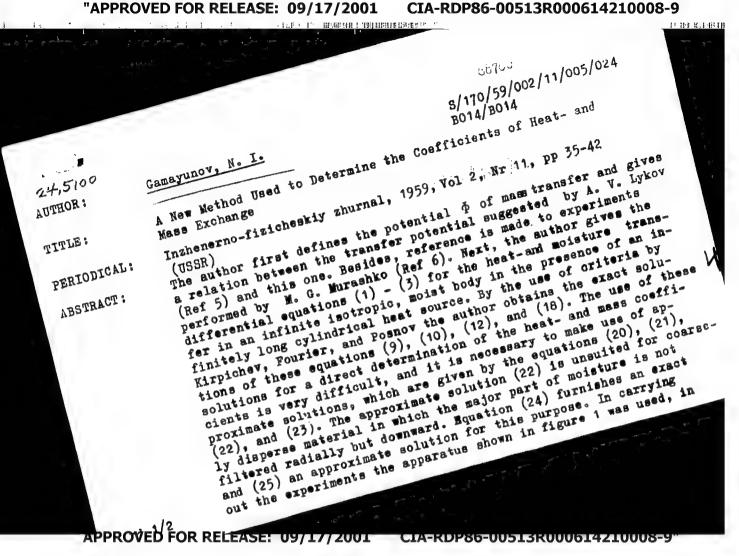




GAMANYUNOV, Matvey Vasil'yevich; ZAVERNYAYEVA, L.V., red.; PONOMAREVA, A.A., tekhn. red.

[Development of agriculture and social relations in a village]
Razvitie sel'skogo khoziaistva i obshchestvennykh otnoshenii v derevne. Moskva, Ekonomizdat, 1962. 161 p. (MIRA 15:12)

(Agricultural policy) (Russia—Rural conditions)



68760

A New Method Used to Determine the Coefficients of Heats/170/59/002/11/005/024

which a moisture potentiometer designed by S. S. Korchunov at the VNIITP was used to determine the potential. It consists of a porous ceramic transmitter and a differential pressure gauge calibrated in cm water column. The following experimental arrangement was applied: The heater probe was introduced into the material to be tested, and the ceramic transmitter and a semiconductor resistance thermometer were set up 40 - 50 mm distant from each other on a circular line. After switching on the current for the heater probe, the moisture potential and temperature were measured in regular intervals (Fig 2). By means of the resulting diagram it is possible to determine all heat- and moisture coefficients from the previously derived equation in the course of a single experiment. The results of investigations performed on two different types of peat (pretreated and not pretreated) are diagrammatically represented in figures 2 and 3. There are 3 figures and 11 references, 8 of which are Soviet.

ASSOCIATION:

Torfyanoy institut, g. Moskva (Peat Institute, City of Moscow)

Card 2/2

		1 7 7
	30V/69-21-3-2/25	
5(4)		17
AUTHORS:	Volarovich, M.P., Gamayunov, N.I., Starikova, Z.A., Churayev, N.V.	
TITLE:	A Study of the Aquatic Properties and the Structure of Peat With the Aid of Radioactive Isotopes - 2. Changes in the Aquatic and Structural Properties of Peat, when in the Aquatic are Pressed	
PERIODICAL:	(USSR) Kolloidnyy zhurnal, 1959, Vol XXI, Nr 3, pp 277-252 (USSR)	
ABSTRACT:	The authors describe an experiment carried out with the authors describe an experiment carried out with the authors describe an experiment carried out with the aid of a radiotracer (Na ₂ SO ₄ with isotope S ³⁵) to determine the change in the aquatic properties and the structure of samples of dispersed and compressed peat of different processing stages. The used methods along different processing stages. The used methods along different processing stages. The used methods along different processing included the water within samples, i.e. the measurings included the water within the cellular cavities of the plant residues, which constitute a considerable part of the peat. It was	
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sov/69-21-3-2/25

A Study of the Aquatic Properties and the Structure of Feat With the Aid of Radioactive Isotopes - 2 Change in the Aquatic and Structural Properties of Peat, when Dispersed or Pressed

observed that dispersing and compressing of the samples resulted in a diminution of their water content, due to the partial liberation of intracellular water and its passing into the free liquid. This was accompanied by destruction and deformation of the plant residues, which in its turn caused an increase in the active porosity of the peat, particularly in its disperse phase. It was further observed, that during dispersion and compression the kinetic specific surface of the peat considerably increases, whereas the diameter of the pores which determine the internal water transport, is reduced. The pressure needed to make a great part of intercellular liquid pass into free water does not exceed 1 kg/cm2. It results therefrom, that this kind of water linkage in peat is energetically very weak. The methods developed by the authors permit their being used also for technological processes, which are con-

Card 2/3

SOY/69-21-3-2/25

रतीत्रीतराक्षेत्रचे क्षेत्रका राज्यत केस सित्रोंका किया सित्र है। एक प्रतिकार के प्रतिकार के प्रतिकार के प्रतिक

A Study of the Aquatic Properties and the Structure of Peat With the Aid of Radioactive Isotopes-2. Change in the Aquatic and Structural Properties of Peat, when Dispersed or Pressed

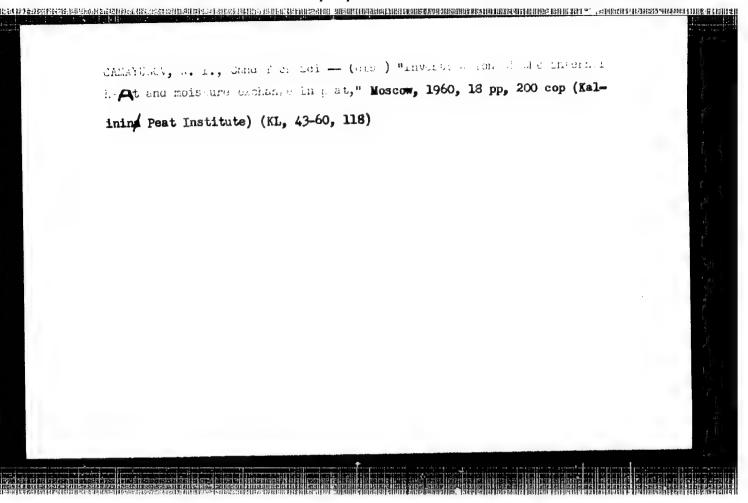
nected with the change in aquatic properties and the structure of peat. The following Soviet scientists (all covered by references) are mentioned in the article: A.A. Berezin, I.D. Belovidov, I.M. Litvinov and M.G. Bulynko. There are 3 graphs, 2 tables and 17 Soviet references.

ASSOCIATION: Moskovskiy torfyanoy institut, Kafedra fiziki

(Moscow Peat Institute, Chair of Physics)

SUBMITTED: 19 June 1958

Card 3/3



"APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000614210008-9

80282 **S/170/60/003/04/0**2/027 **B007/B102**

5.1230

AUTHOR:

Gamayunov, N.I.

TITLE:

Investigation of the Transfer of Heat and Moisture in a Limited Bar

PERIODICAL: Inzhenerno-fizicheskiy zhurnal, 1960, Vol. 3, No. 4, pp. 11-17

TEXT: The heat and moisture transfer in samples of a moist dispersed material in the shape of a limited, heat—and moisture—insulated bar is expressed by a system of differential equations (Refs. 1,2): Formulas (1), (2) and (3). The bar is constantly heated on the front face and cooled by air convection. On the other front face it contacts a non-hygroscopic half-limited standard. The exact solutions of the formulas (1) and (3) are obtained: Formulas (15) and (26). On this occasion, the criteria of Kirpichev, Posnov and Lykov are used. Approximation formulas (27) and (28) are obtained for a longer duration of the experiment. These formulas show that in the case of sufficiently long experiments the temperature distribution along the bar is represented by a straight line and the moisture by a second-order curve. The maximum of the latter may be determined from formula (29). The experiments were carried out in the device shown in

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Investigation of the Transfer of Heat and Moisture in a Limited Bar

80282 \$/170/60/003/04/02/027 B007/B102

Fig. 1. A similar system has already earlier been suggested by N.N. Bab'yev (Ref. 6). Dispersed lowland peat was used in the experiments. This peat was mixed into a solution of radioactive Na₂S^{*}O₄ salt which is not adsorbed by the solid peat phase (Ref. 7). Fig. 2 shows the curves of the distribution of moisture and of the relative activity for the peat samples at various initial moisture. The activity curves show that transfer of moisture in a closed moisture-insulated sample is a complicated process. The experiments proved that a moisture circulation acts in a moisture-insulated sample. An attempt is made to explain this process. The present experiments and those made by other authors with samples of various length and at various heating periods are indicative of the fact that transfer of moisture in form of steam plays an essential part in heat transfer (particularly in samples of low moisture). This has been observed in all experiments within the temperature range of 30-60° C. The experiments confirmed the presence of moisture currents (connected with the temperature gradient) towards the "cold" as well as towards the "hot" front face of the sample. The supposition of the papers mentioned in Refs. 6 and 8 concerning linearity of moisture distribution along the sample in the quasi-steady state did not prove true in the experiments made here. The formulas given in the paper (Formula 6) cannot (as is shown by analytical and experimental investigations)

Card 2/3

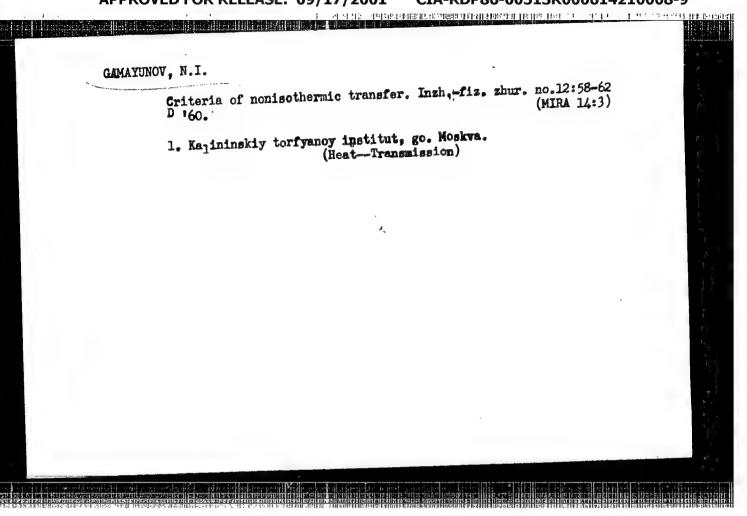
Investigation of the Transfer of Heat and Moisture in a Limited Bar

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be used as a base for calculating the coefficients of heat and moisture transfer. The work described was performed under the supervision of M.P. Volarovich and W.V. Churayev. There are 4 figures, 1 table, and 9 Soviet references.

ASSOCIATION: Kalininskiy torfyanoy institut, g. Moskva (Kalinin Peat Institute, City of Moscow)

Card 3/3



VOLAROVICH, M.P.; GAMAYUNOV, N.I.; CHURAYEV, N.V.

Study of thermomoisture conductivity in peat. Koll. zhur. 22
no. 5:535-542 S-0 '60.

1. Kalininskiy torfyanoy institut.
(Peat)

CAMAYUNOV, N. I., VOLAROVICH, M. P., and CHURAYEV, N. V.
"Investigation of Heat and Mass Transfer in Peat by
Radioactive Indicators."

Report submitted for the Conference on Heat and Mass Transfer, Minsk, BSSR, June 1961.

CAMAYUNOV, N. I.

"New Method of Complex Determination of Heat and Mass Transfer Coefficient and the Criterium of Phase Conversions."

Report submitted for the Conference on Heat and Mass Transfer, Minsk, BSSR, June 1961.

BROMERC, Viktor Aleksendrovich; GAMAYUNOY, Nikolay Ivanovich; ...

ZVONYKII, Aleksey Dmitriyovich; KUDRYAVTSEV, Vitaliy
Vasil'yevich; TEVEROVSKIY, Yevgeniy Ivanovich; EPSHTEYN,
Lev Abramovich; SHIROKOVA, M.M., tekhm. red.

[Mechanization of the manufacture of electrical insulating
materials of winding insulation, and drying as well as
saturating operations] Mekhanizatsia proizvodstva elektroizoliatsionnykh materialov, izoliatsionno-obmotochnykh i
sushil'no-propitochnykh rabot. By V.A.Bromberg i dr. Moskva,
Gos. energ.izd-vo, 1961. 99 p.

(Electric insulators and insulation)

23754

医上颌性 常独化真常结合 经输出 铁桶 医红斑色 医红白红白 医红红白色 二丁二十五十

S/170/61/004/006/010/015 B129/B212

10.9020

AUTHORS:

Churayev, N. V., Gamayunov, N. I.

TITLES

Study of the structure of porous media by radioactive in-

dicators

isan ≳a indina dan ka

PERIODICAL:

Inzhenerno-fizicheskiy zhurnal, v. 4, no. 6, 1961, 106-111

TEXT: Exact and approximate solutions of the differential equations for convective diffusion, which describe the filtration of pure water through pores, are obtained by the authors. A radioactive indicator is added to the water. The theoretical results are compared with the experimental ones. For the study of moisture transfer in disperse materials it is very important to obtain their structural characteristics. It has been suggested to picture the motion of the liquid in porous materials like the process of convective diffusion. The structure of the materials is characterized by the size of the convective diffusion coefficients; it is assumed that diffusion takes place because of the difference in dimensions and the arrangement of the pores. The experimental analysis of convective

Card 1/3

23754

Study of the structure of ...

S/170/61/004/006/010/015 B129/B212

diffusion in porous materials can be done with radioactive indicators. The water is filtrated through the test material under constant pressure. A radioactive indicator solution (Na $_2$ SO $_4$ with S $_5$ 5, NaI with I $_5$ 7 etc) is

poured on top of the water. Single small samples are taken from the filtrate. The concentration of the indicator is determined by radiometric methods. Exact approximate solutions of the differential equation for the convective diffusion are obtained. Experiments with the filtration of a solution of a radioactive indicator show that only for isotropic materials the experimental data will agree with the theoretical ones. The structure of isotropic materials (for example, sand with a grain size of 0.1-0.25 mm) can be characterized by the convective diffusion coefficient and the average dimensions of the pores. The size distribution of the pores corresponds to the Gaussian distribution. For non-isotropic materials (e.g. peat) the equation of convective diffusion is not applicable since the size distribution of the pores is not Gaussian. There are 2 figures and 7 references: 6 Soviet-bloc and 1 non-Soviet-bloc.

Card 2/3

2375L S/170/61/004/006/010/015 Study of the structure of... B129/B212

ASSOCIATION: Kalininskiy torfyanoy institut, Moskva (Kalinin Peat

Institute of Moscow)

SUBMITTED: August 5, 1960

Card 3/3

GEAVERY, E.I.; ST THE MY, Y.S.

Determining the water permeability of woils in Ciclé conditions. Inch.-fiz. shur, A no.10:71-77 0 'cl. (EMA 14:10)

1. Torfyanoy institut, Kalinin.
(Soil percelution)

NEKHAY, Stepan Matveyevich; NOVAK, Vadim Mikhaylovich; KHABAROV, Valentin Ivanovich; GAMAYUNOV, N.I., red.; LARIONOV, G.Ye., tekhn. red.

[Pressing machines used in the manufacture of electrical insulating materials]Pressy dlia proizvodstva elektroizo-liatsionrykh materialov. Moskva, Gosenergoizdat, 1962. 94 p. (MIRA 15:9)

(Electric insulators and insulation)
(Electric equipment industry—Equipment and supplies)
(Power presses)

(2)

331₄71₄ 3/170/62/005/002/006/009 B104/B138

24.5200

AUTHOR:

Gamayunov, N. I.

TITLE:

Some problems of heat and mass transfer

PERIODICAL: Inzhenerno-f'zicheskiy zhurnal, v. 5, no. 2, 1962, 79 - 89

TEXT: The system

$$\frac{\partial t\left(\zeta,\,\tau\right)}{\partial\,\tau} = a\,\nabla^2 t\left(\zeta,\,\tau\right) + \frac{\varepsilon\rho\,c_m}{c} \frac{\partial\,\theta\left(\zeta,\,\tau\right)}{\partial\,\tau},$$

$$\frac{\partial\,\theta\left(\zeta,\,\tau\right)}{\partial\,\tau} = a_m\,\nabla^2\,\theta\left(\zeta,\,\tau\right) + a_m\,\delta\nabla^2\,t\left(\zeta,\,\tau\right)^*,$$
(1)

where
$$\nabla^2 = \frac{\partial}{\partial \zeta} + \frac{m-1}{\zeta} \frac{\partial}{\partial \zeta}$$
.

for internal heat and mass is solved with boundary conditions of the second kind:

Card 1/8

33474

S/170/62/005/002/006/009 B104/B138

Some problems of heat ...

 $-\lambda \frac{\partial t(R,\tau)}{\partial \zeta} + q(\tau) - (1-\epsilon)\rho q_m(\tau) = 0.$ (3)

$$\lambda_{m} \frac{\partial \theta(R, \tau)}{\partial \zeta} + \lambda_{m} \delta \frac{\partial t(R, \tau)}{\partial \zeta} + q_{m}(\tau) = 0, \tag{4}$$

$$\frac{\partial l(0,\tau)}{\partial \zeta} = \frac{\partial \theta(0,\tau)}{\partial \zeta} = 0, \tag{5}$$

 $t(0, \tau) < \infty, \ \theta(0, \tau) < \infty,$

 $t(\zeta, 0) = f_1(\zeta), \ \theta(\zeta, 0) = f_2(\zeta),$

where δ is Soret's coefficient of a wet body, q(r) and $q_m(r)$ are arbitrary boundary functions of heat and liquid flows, which satisfy Dirichlet's conditions; $\frac{1}{2} = x$, m = 1 for plates, $\frac{1}{2} = r$, m = 2 for cylinders, and $\frac{1}{2} = r$, m = 3 for spheres. Eqs. (1) - (2) and the boundary conditions are transformed with the aid of the substitutions t = u + v, $\mathfrak{F} = K + \mathfrak{F}$ and solved by using Fourier or Hankel transformations: Card $\frac{1}{2}/8$

3347hr Some problems of heat ... S/170/62/005/002/006/009 B104/B138

$$v = \frac{m}{R^{m}} \int_{0}^{R} f_{1}(\zeta) \zeta^{m-1} d\zeta -$$

$$-\frac{1}{v_{1}^{2} - v_{2}^{2}} \left\{ \sum_{n=1}^{\infty} A_{2} \exp\left(-\mu_{n}^{2} \frac{F_{0}}{v_{1}^{2}}\right) - \sum_{n=1}^{\infty} A_{1} \exp\left(-\mu_{n}^{2} \frac{F_{0}}{v_{2}^{2}}\right) \right\},$$

$$x = \frac{m}{R^{m}} \int_{0}^{R} f_{2}(\zeta) \zeta^{m-1} d\zeta -$$

$$-\frac{1}{v_{1}^{2} - v_{2}^{2}} \left\{ \sum_{n=1}^{\infty} B_{2} \exp\left(-\mu_{n}^{2} \frac{F_{0}}{v_{1}^{2}}\right) - \sum_{n=1}^{\infty} B_{1} \exp\left(-\mu_{n}^{2} \frac{F_{0}}{v_{2}^{2}}\right) \right\}.$$
(25),

Card 3/8

	334 7 4 5/170/62/005/	(002/026/000	**************************************
Some problems of heat	B104/B138	002/036/009	
$u(\zeta, \tau) = m \frac{a}{R} \left[\frac{1}{\lambda} \int_{0}^{\tau} q(\theta) d\theta - \text{Lu Ko Pri} \frac{1}{\delta \lambda_{n}} + \frac{2a}{R^{3}} \sum_{n=1}^{\infty} C \int_{0}^{\tau} \left\{ P_{1}(\theta) \exp \left[-\mu_{n}^{2} \frac{a(\tau - \mu_{n}^{2})^{2}}{\nu_{1}^{2}} \right] \right\} \right]$	$\begin{bmatrix} -0 \\ R^2 \end{bmatrix}$	(36),	
$-P_{2}(\vartheta) \exp \left[-\mu_{n}^{2} \frac{a(\tau - \eta_{n}^{2})}{v_{2}^{2}R^{3}}\right]$ $\sigma(\zeta, \tau) = -\frac{a_{n}}{\lambda_{m}R} \int_{0}^{\pi} q_{m}(t)$	0) d 0 +	(37).	V
$+\frac{2a}{R^2}\sum_{n=1}^{\infty}C\int_{0}^{\tau}\left\{Q_1(\theta)\exp\left[-\mu_n^2\frac{a(\tau-1)}{\sqrt{2}R^2}\right]\right\}$ Card 4/8			

33l.7l4 S/170/62/005/002/006/009 B104/B138

Some problems of heat ...

The coefficients contained therein are listed in tables. These general solutions are discussed and a number of particular solutions are presented for cases where the boundary functions of heat and mass transport are given in the form of polynomials, exponential and sine functions. There are 2 tables and 5 references: 4 Soviet and 1 non-Soviet.

ASSOCIATION: Kalininskiy torfyanoy institut, g. Moskva (Kalinin Peat

Institute, Moscow)

SUBMITTED: May 29, 1961

Card 5/8

42079

S/170/62/005/011/004/008 B104/B102

5.4210

AUTHOR:

Gamayunov, N. I.

TITLE:

Some problems of heat and mass transfer

PERIODICAL:

Inzhenerno-fizicheskiy zhurnal, v. 5, no. 11, 1962, 74 - 86

TEXT: For heat and mass transer in a bounded body, general solutions are derived from

 $\frac{\partial t\left(\xi,\tau\right)}{\partial \tau} = a \, \nabla^2 t\left(\xi,\tau\right) + \frac{z\rho \, c_m}{c} \, \frac{\partial b\left(\xi,\tau\right)}{\partial \tau} \,. \tag{1}$

 $\frac{\partial h\left(\xi,\tau\right)}{\partial \tau} = a_m \nabla^{2h}(\xi,\tau) + a_m \delta \nabla^2 h(\xi,\tau),$ $\partial m - 1 \quad \partial$ (2)

 $\nabla^2 = \frac{\partial}{\partial \xi} + \frac{m-1}{\xi} \frac{\partial}{\partial \xi}.$

and particular solutions are obtained for a plate, a cylinder and a sphere. This system is solved under generalized boundary conditions of the third kind

Card 1/4

5/170/62/005/011/004/006 B104/B102 Some problems of heat ... $-\lambda \frac{\partial t\left(R,\tau\right)}{\partial \varepsilon} + \alpha \left[t_{\varepsilon}\left(\tau\right) - t\left(R,\tau\right)\right] - \left(1 - \varepsilon\right) \mu \sigma_{m} \left[b\left(R,\tau\right) - b_{\varepsilon}\left(\tau\right)\right] + c \left(1 - \varepsilon\right) \left[a_{m} \left[b\left(R,\tau\right) - b_{\varepsilon}\left(\tau\right)\right]\right] + c \left(1 - \varepsilon\right) \left[a_{m} \left[b\left(R,\tau\right) - b_{\varepsilon}\left(\tau\right)\right]\right] + c \left(1 - \varepsilon\right) \left[a_{m} \left[b\left(R,\tau\right) - b_{\varepsilon}\left(\tau\right)\right]\right] + c \left(1 - \varepsilon\right) \left[a_{m} \left[b\left(R,\tau\right) - b_{\varepsilon}\left(\tau\right)\right]\right] + c \left(1 - \varepsilon\right) \left[a_{m} \left[b\left(R,\tau\right) - b_{\varepsilon}\left(\tau\right)\right]\right] + c \left(1 - \varepsilon\right) \left[a_{m} \left[b\left(R,\tau\right) - b_{\varepsilon}\left(\tau\right)\right]\right] + c \left(1 - \varepsilon\right) \left[a_{m} \left[b\left(R,\tau\right) - b_{\varepsilon}\left(\tau\right)\right]\right] + c \left(1 - \varepsilon\right) \left[a_{m} \left[a_{m} \left(T,\tau\right) - b_{\varepsilon}\left(\tau\right)\right]\right] + c \left(1 - \varepsilon\right) \left[a_{m} \left[a_{m} \left(T,\tau\right) - b_{\varepsilon}\left(\tau\right)\right]\right] + c \left(1 - \varepsilon\right) \left[a_{m} \left[a_{m} \left(T,\tau\right) - b_{\varepsilon}\left(\tau\right)\right]\right] + c \left(1 - \varepsilon\right) \left[a_{m} \left(T,\tau\right) - b_{\varepsilon}\left(\tau\right)\right] + c \left(1 - \varepsilon\right) \left[a_{m} \left(T,\tau\right) - b_{\varepsilon}\left(\tau\right)\right] + c \left(1 - \varepsilon\right) \left[a_{m} \left(T,\tau\right) - b_{\varepsilon}\left(\tau\right)\right] + c \left(1 - \varepsilon\right) \left[a_{m} \left(T,\tau\right) - b_{\varepsilon}\left(\tau\right)\right] + c \left(1 - \varepsilon\right) \left[a_{m} \left(T,\tau\right) - b_{\varepsilon}\left(\tau\right)\right] + c \left(1 - \varepsilon\right) \left[a_{m} \left(T,\tau\right) - b_{\varepsilon}\left(\tau\right)\right] + c \left(1 - \varepsilon\right) \left[a_{m} \left(T,\tau\right) - b_{\varepsilon}\left(\tau\right)\right] + c \left(1 - \varepsilon\right) \left[a_{m} \left(T,\tau\right) - b_{\varepsilon}\left(\tau\right)\right] + c \left(1 - \varepsilon\right) \left[a_{m} \left(T,\tau\right) - b_{\varepsilon}\left(\tau\right)\right] + c \left(1 - \varepsilon\right) \left[a_{m} \left(T,\tau\right) - b_{\varepsilon}\left(\tau\right)\right] + c \left(1 - \varepsilon\right) \left[a_{m} \left(T,\tau\right) - b_{\varepsilon}\left(\tau\right)\right] + c \left(1 - \varepsilon\right) \left[a_{m} \left(T,\tau\right) - c \left(1 - \varepsilon\right)\right] + c \left(1 - \varepsilon\right) \left[a_{m} \left(T,\tau\right) - c \left(1 - \varepsilon\right)\right] + c \left(1 - \varepsilon\right) \left[a_{m} \left(T,\tau\right) - c \left(1 - \varepsilon\right)\right] + c \left(1 - \varepsilon\right) \left[a_{m} \left(T,\tau\right) - c \left(1 - \varepsilon\right)\right] + c \left(1 - \varepsilon\right) \left[a_{m} \left(T,\tau\right) - c \left(1 - \varepsilon\right)\right] + c \left(1 - \varepsilon\right) \left[a_{m} \left(T,\tau\right) - c \left(1 - \varepsilon\right)\right] + c \left(1 - \varepsilon\right) \left[a_{m} \left(T,\tau\right) - c \left(1 - \varepsilon\right)\right] + c \left(1 - \varepsilon\right) \left[a_{m} \left(T,\tau\right) - c \left(1 - \varepsilon\right)\right] + c \left(1 - \varepsilon\right) \left[a_{m} \left(T,\tau\right) - c \left(1 - \varepsilon\right)\right] + c \left(1 - \varepsilon\right) \left[a_{m} \left(T,\tau\right) - c \left(1 - \varepsilon\right)\right] + c \left(1 - \varepsilon\right) \left[a_{m} \left(T,\tau\right) - c \left(1 - \varepsilon\right)\right] + c \left(1 - \varepsilon\right) \left[a_{m} \left(T,\tau\right) - c \left(1 - \varepsilon\right)\right] + c \left(1 - \varepsilon\right) \left[a_{m} \left(T,\tau\right) - c \left(1 - \varepsilon\right)\right] + c \left(1 - \varepsilon\right) \left[a_{m} \left(T,\tau\right) - c \left(1 - \varepsilon\right)\right] + c \left(1 - \varepsilon\right) \left[a_{m} \left(T,\tau\right) - c \left(1 - \varepsilon\right)\right] + c \left(1 - \varepsilon\right) \left[a_{m} \left(T,\tau\right) - c \left(1 - \varepsilon\right)\right] + c \left(1 - \varepsilon\right) \left[a_{m} \left(T,\tau\right) - c \left(1 - \varepsilon\right)\right] + c \left(1 - \varepsilon\right) \left[a_{m} \left(T,\tau\right) - c \left(1 - \varepsilon\right)\right] + c \left(1 - \varepsilon\right) \left[a_{m} \left(T,\tau\right) - c \left(1 - \varepsilon\right)\right] + c \left(1 - \varepsilon\right) \left[a_{m} \left(T,\tau\right) - c \left(1 - \varepsilon\right)\right] + c \left(1 - \varepsilon\right) \left[$ (3) $\lambda_{m} \frac{\partial \theta(R,\tau)}{\partial E} + \lambda_{m} \delta \frac{\partial t(R,\tau)}{\partial E} + \alpha_{m} \left[\theta(R,\tau) - \theta_{c}(\tau)\right] = 0;$ (4),under the symmetry conditions $\frac{\partial t(0,\tau)}{\partial \xi} = \frac{\partial \theta(0,\tau)}{\partial \xi} = 0$ (5), and under the initial conditions $I(\xi,0) = \int_{\Sigma} (\xi), \ \theta(\xi,0) = \int_{Z} (\xi).$ (6). As in a previous paper (N. I. Gamayunov, IFZh, no. 2, 1962) two systems of the form (1)-(2) are obtained by the substitution t = v + u, $\theta = \omega + \sigma$. In the first system v and wast satisfy the conditions (5)-(6) and $v(R, r) = \omega(R, r)=0$; in the second system u and wast satisfy the conditions (3)-(5) and $u(\frac{1}{2},0) = \sigma(\frac{1}{2},0) = 0$. The solution $v = \frac{1}{v_2^2 - v_1^2} \left\{ \sum_{\mu_n^2 = 1}^{\infty} A_2 \exp\left(-\mu_n^2 v_2^2 \operatorname{Fo}_m\right) - \sum_{\mu_n = 1}^{\infty} A_1 \exp\left(-\mu_n^2 v_1^2 \operatorname{Fo}_m\right) \right\}, 10 \right\}$ Card 2/4

Some problems of heat ...

$$\omega = \frac{1}{v_2^2 - v_1^2} \left\{ \sum_{\mu_n = 1}^{\infty} B_2 \exp\left(-\frac{\mu_n^2}{v_2^2} F_{0_m}\right) - \sum_{\mu_n = 1}^{\infty} B_1 \exp\left(-\frac{\mu_n^2}{v_1^2} v_1^2 F_{0_m}\right) \right\}, \tag{11}$$

to the first system is obtained easily by Laplace, Fourier or Hankel trans-

$$u = 2 \sum_{n=1}^{\infty} \left\{ (P_{n2}L_{n1} - P_{n1}L_{n2}) \frac{\mu_n}{\psi_n} \frac{a}{R^2} \int_0^{I_c} (\theta) \exp\left[-\mu_n^2 \frac{a}{R^2} (\tau - \theta)\right] d\theta - \right\}$$
For $I_n = 1$

$$-\frac{Fe}{\delta} \left(S_{n2} L_{n1} - S_{n1} L_{n2} \right) \frac{\mu_n}{\frac{\alpha}{2n}} \frac{a}{R^2} \int_0^{\pi} \theta_e(\theta) \exp \left[-\mu_n^2 \frac{a}{R^2} (\tau - \theta) \right] d\theta$$

$$z = 2 \sum_{n=1}^{\infty} \left[\left(P_{n2}^* L_{n1} - P_{n1}^* L_{n2} \right) \frac{\mu_n}{\frac{\alpha}{2n}} \frac{\delta}{Fe} \frac{a}{R^2} \int_0^{\pi} t_e(\theta) \times d\theta \right]$$
(12)

Card 3/4 :
$$\times \exp\left[-\frac{\mu_n^2}{R^2}\frac{\alpha}{(\tau-0)}\right]d\theta - \frac{Fe}{\delta}\left(S_{n2}^*L_{n1} - S_{n1}^*L_{n2}\right)\frac{\mu_n}{\psi_n}\frac{\alpha}{R^2}\times$$

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Some problems of heat ...

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S/170/62/005/011/004/008

$$\times \int_{0}^{\overline{t}} \theta_{c}(\vartheta) \exp \left[-\mu_{a}^{2} \frac{a}{R^{2}} (\overline{t} - \vartheta)\right] d\vartheta \bigg|_{0}^{\overline{B}}.$$

to the second system is obtained by a Laplace integral transformation. The general solution of system (1) is a sum of the solutions (10) and (12); that of system (2) is a sum of the solutions (11) and (13). Special solutions tions are discussed for the case that temperature and potential of the external medium are given by $t_c = t_{0c} e^{-z_1 \tau} \cos(\omega_1 \tau + \varphi_1)$, $\theta_c = \theta_{0c} e^{-z_1 \tau} \cos(\omega_2 \tau + \varphi_2)$. that temperature and potential of the medium change exponentially, and that

$$t_c(\tau) = z_0 + a_1 \tau + a_2 \tau^2 + \dots + a_h \tau^h = \sum_{m=0}^h a_m \tau^m,$$
 (17).

There are 6 tables.

 $\theta_c\left(\tau\right) = \beta_0 + \beta_1 \tau + \beta_2 \tau^2 + \dots + \beta_t \tau^t = \sum_{m=0}^{t} \beta_m \tau^m$

ASSOCIATION: Torfyanoy institut, 6. Kalinin (Peat Institute, Kalinin)

SUBMITTED: Card 4/4

January 3, 1962

GAMAYUNOV, N. I.

A new method for complex determination of the coefficients of heat transfer and mass transfer and of the criterion of phase transformation. Teplo- i massoper. 1:86-93 *62. (MIRA 16:1)

1. Kalininskiy torfyanoy institut.

(Peat—Thermal properties) (Peat—Testing)

GAMAYUNOV, N.I. (Kalinin); SHERZHUKOV, B.S. (Kalinin)

Reduction of piezometeic pressures in squifers underlying soils to be drained. PMTF no.1:137-142 Ja-F •62. (MTRA 15:4)

1. Kalininskiy torfyanoy institut. (Soil percolation) (Drainage)

VOLAROVICH, M.P., doktor fiziko-matematicheskikh nauk; GAMAYUNOW, K.I. kand. tekhn. nauk; CHURAYEV, N.V., kand. tekhn. nauk

Using radioactive indicators for studying the moisture characteristics, structure, and moisture movement in peat.

Trudy VNIIGH 38:97-115 162. (MIRA 16:7)

l.Kalininskiy torfyanoy institut.
(Peat—Testing) (Radioactive tracers)

GAMAYUNOV, N.

Fift All-Union Conference on the Colloid Chemistry. Torf. prom. 39 no.6:37-38 '62. (MIRA 16:7)

(Peat) (Chemistry, Physical and theoretical)

S/170/63/006/002/016/018 B108/B186

AUTHOR:

Gamayunov, N. I.

TITLE:

Heat and mass transfer in anisotropic bodies

PERIODICAL:

Inzhenerno-fizicheskiy zhurnal, v. 6, no. 2, 1963, 118-121

TEXT: The equations of heat and mass exchange (A. V. Dykov. Teplo- i massoobmen v proteessakh sushki - Heat and mass exchange in drying processes - . Gosenergoizdat, 1956; A. V. Dykov, Yu. A. Mikhaylov. Teoriya perenosa energii i veshchestv - Theory of energy and mass transfer - . Izd. AN BSSR, 1959):

 $\frac{\partial t}{\partial \tau} = \sum_{l=1}^{3} C_l \frac{\partial^2 l}{\partial x_i^2} + \sum_{l=1}^{3} D_l \frac{\partial^2 b}{\partial x_i^2} , \qquad (1)$

$$\frac{\partial \theta}{\partial \tau} = \sum_{l=1}^{3} C_{l}^{*} \frac{\partial^{2} l}{\partial x_{l}^{2}} + \sum_{l=1}^{3} D_{l}^{*} \frac{\partial^{2} \theta}{\partial x_{l}^{2}} , \qquad (2)$$

with

$$C_l = a_l + \frac{\rho z \delta_l \, a_{ml}}{c}; \ D_i = \frac{e \rho \, a_{ml} c_m}{c}; \ C_l^{\circ} = \frac{\delta_l \, a_{ml}}{c_{ml}}; \ D_l^{\circ} = a_{ml}.$$

Card 1/3

Heat and mass transfer in ...

S/170/63/006/002/016/018 B108/B186

for anisotropic, porous, colloidal bodies are solved for a parallelepiped (21, by 21, by 21,) with the boundary conditions

$$t(x_1, x_2, x_3, 0) = f_1(x_1, x_2, x_3), \theta(x_1, x_2, x_3, 0) = (3)$$

$$= f_2(x_1, x_2, x_3),$$

$$t(l_l, \tau) = \varphi_l(\tau), \ \theta(l_l, \tau) = \psi_l(\tau) \tag{4}$$

and the symmetry conditions

$$\frac{\partial l(0, \tau)}{\partial x_i} = 0, \quad \frac{\partial \theta(0, \tau)}{\partial x_i} = 0. \tag{5}$$

The characteristic equations are found by subjecting the above equations and conditions to an integral Laplace transformation with respect to time, and to a finite Laplace transformation or to a Fourier cosine transformation (A. I. Sneddon. Fourier transformations, 1955) with respect to the three coordinates \mathbf{x}_i .

ASSOCIATION: Kalininskiy torfyanoy institut, g. Moskva (Kalinin Institute of Peat, Moscow)

Card 2/3

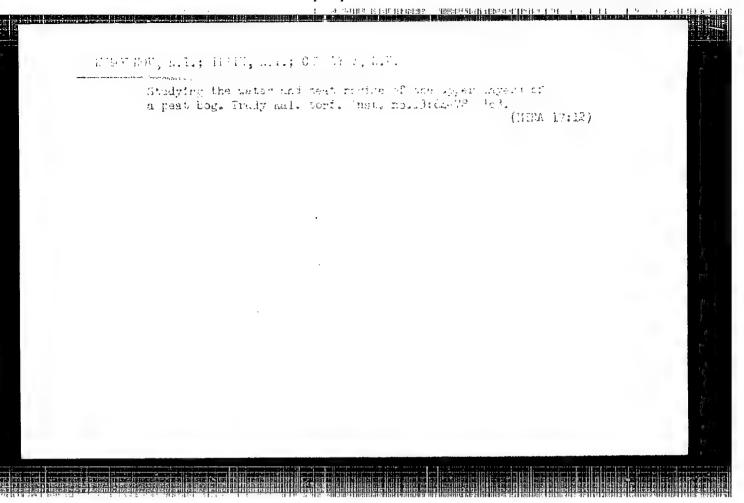
Heat and mass transfer in ... 3. S/170/63/006/002/016/018
SUBMITTED: May 12, 1962

Card 3/3

(MIRA 17:2)

NAUMOVICH, V.M.; GAMAYUNOV, N.I.; TSEPLYAYEV, O.A. Hot pressing of peat under vacuum. Inzh.-fiz. zhur. no.12: 107-110 D 63.

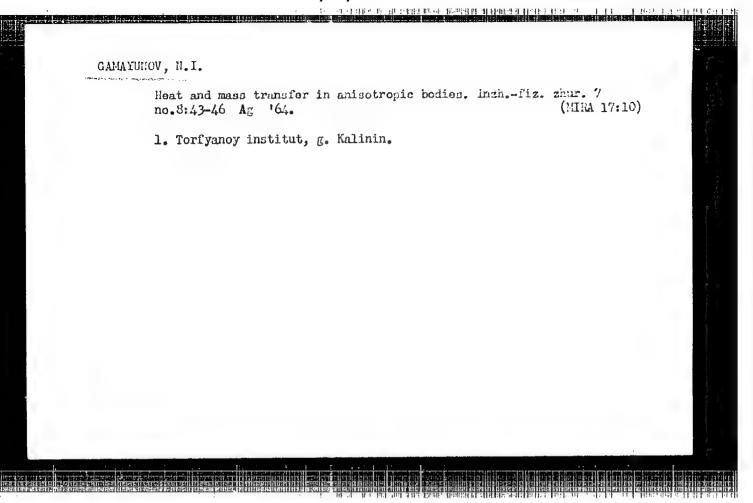
1. Torfyanoy institut, Kalinin.



VOLAROVICH, M.P.; GAMAYUNOV, N.I.; DAVIDOVSKIY, P.N.

Study of the diffusion process in a porous medium (peat) by the radioactive-tracer technique. Koll.zhur. 26 no.1:139-140 Ja-F '64. (MIRA 17:4)

1. Kalininskiy torfyancy institut i Institut torfa, Minsk.



"Solution of transfer equations by matrices."

report submitted for 2nd All-Union Conf on Heat & Mass Transfer, Minsk, 4-12

Kalinin Peat Inst.

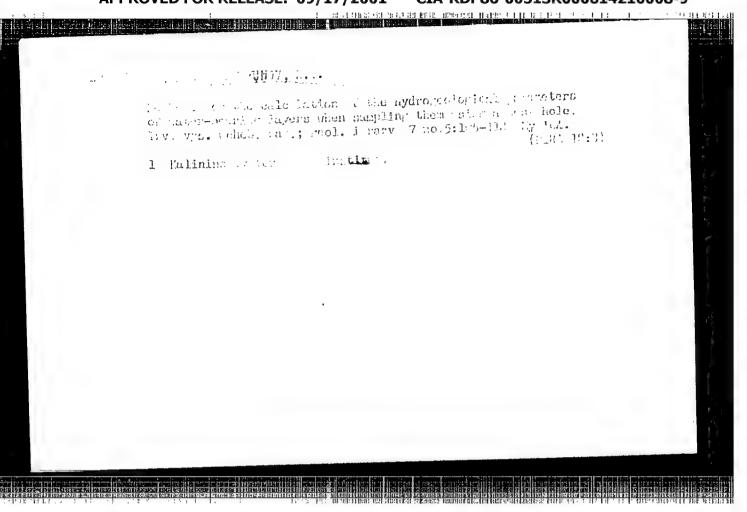
May 1964.

GAMAYUNOV, II. I.; LISHTVAN, I. I.; CHURAYEV, II. V.

"Processes of structural change with heat and mass transfer in collodial capillary-porous bodies."

report submitted for 2nd All-Union Conf on Heat & Mass Transfer, Minsk, 4-12 May 1964.

Kalinin Peat Inst



DOLINSKAYA, E.S.; GAMAYUNOV, N.I.; BERKOVICH, T.M.

Using radioisotopes for examining the thermal gradient transfer of moisture in the "raw" asbestos cement. Trudy NIIAsbestisementa no.19:80-95 '65.

(MIRA 18:9)

VOLAROVICH, M.P.; GAMAYLIOV, N.I.; DAVIDOVCKIY, P.N.

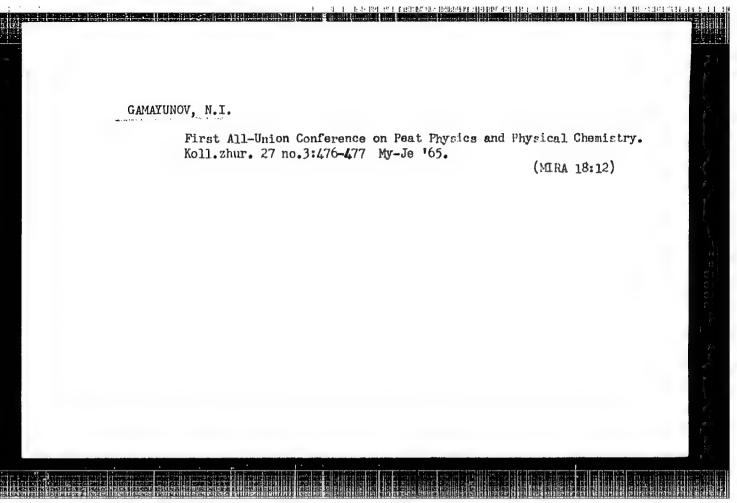
Gamma-spectroscopic kinetic study of the heat and moisture conductivity of disperse materials. Koll. zhur. 27 nc.1:3-7 Ja-F (MIRA 18:3)

1. Kalininskiy torfyanoy institut i Ysesoyuznyy nauchnoissledovatel'skiy institut torfa, Monsk.

VOLAROVICH, M.I., TAVILOVSKIY, P.M.; SAMAYUNOV, N.I.

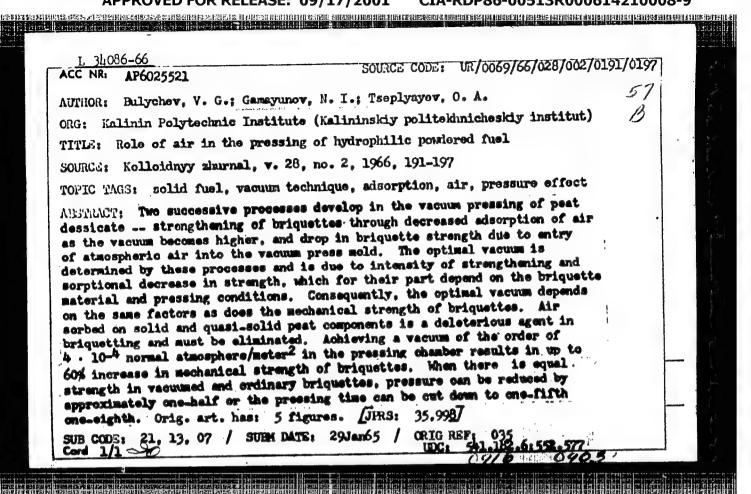
Effect of the moisture content and structure on the mechanism of heat and moisture transfer in peat. Koll. 2hur. 27 no.2: 167-171 Mr-Ap 165. (MIRA 1846)

1. Kalininskiy torfyanoy institut i Vsesoyuznyy nauchnoissledovateliskiy institut torfa, Minsk.



VOUNDERVIEW, Marke, Carter the state of the mechanism of drives of disperse materials in the process of moisture exchange with the underlying soil. Koll. where 27 no.4:505-509 Jl-Ag *65. (Mike 18:12)

1. Kalininskiy terfyanoy institute. Substitut February 20, 1964.



GAMAYUROV, R.G

Forthcoming valuation of fixed assets and working out new schedules for amortization deductions. Mor. flot 19 no.2:18-19 F '59.

(MIRA 12:3)

1.Nachal'nik sektor TSentral'nogo proyektno-konstruktorskogo byuro No.2.

(Merchant marine--Finance)

HOVIKOV. T.N.; YELTSOV, S.P., red.; GAMAYUNOV. R.G., red.; YAKOVLEVA, V.I., red.izd-va; TIKHOROVA, Ye.A., tekhn.red.

[Collections of laws and regulations governing safety and industrial sanitation for the merchant marine] Sbornik pravil i polosbenff po tekhnike bezopasnosti i promyshlennoi sanitarii na morakom flote. Sostavil T.N.Novikov. Moskva, Izd-vo "Morakoi transport," 1957. 620 p. (MIRA 11:5)

1. Russia (1923- U.S.S.R.) Ministerstvo morskogo flota. (Ships-Safety measures) (Ships-Sanitation)

ŗ Formatry, forest Collinson. CR. COURT CAR COM -Brologlya, No. 5, 1759, x1. 20168 : Fortunator, V.; Sadanbava, G.; Gemayanov, V.; : Urimsk Leskhoz 0.0000 : An Experiment Made by Ufimek Lashhoz for 1 11.65 Afforestation of Mountain Slopes. ONIG. POA.: S. kh. Bashkirii, 1957, No.11, 29-31 ABSIRACT : The mountains of Ulimok Leskhoz were formerly , covered with a broadleaf wood containing a longo participation of oak. On soils everlying mant, and Limestones, containing a humes layer to to 10-50 on deep, one began in 1950 to plant forest cultures using various sixtures on the deforested slopes. The main species used were pane, larch, oak, spruce, ash and poplar. It is pointed out that when the root collars were implanted 4-6 cm deeper the plane. * Revbyrin, W. 1/2 CARD : 49

CHTEGORY:
ABS. JOUR: Ref Zaur -Biologaya, No. 5, 1959, No. 20168
AUTHOR:

THST: :

JRIG. PEB.,

Abstract: tings servived better. On southern sountein ; slopes with concavities up to 60° in steephess; terracing was performed. It was found that when pine was mixed with ash, birth and scacia in pure rows it grow better than when in the same mixture with ash and acacia. Larch grew quite successfully in sixture with pure rows of ash, linden and acacia. Satisfactory results were gotten upon planting onk in admixture with ash, alm and acacia. --G.G. Abramashvili

CARD: 2/2

"APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000614210008-9

L 1471147-56 ENT(1)
ACC NR: AT6014613

SOURCE CODE: UR/3203/64/000/227/0149/0154

AUTHOR: Gamayunov, V. I. (Engineer)

II OTI

ORG: none

1/5

TITLE: Dc converter with power amplifier

SOURCE: Leningrad. Institut inzhenerov zheleznodorozhnogo transporta. Sbornik trudov, no. 227, 1964. Elektrosnabzhenivo elektricheskikh zheleznykh doreg (Power supply for electric railroads), 1/9-154

TOPIC TAGG: direct current, electronic transformer, power amplifier, transistorized circuit

ABSTRACT: A dc converter with a power amplifier is described from the point of view of its application to traction substations. A schematic of the device is given, which consists of a push-pull converter (autogenerator) circuit, a transformer, the amplifier input circuit, an output transformer, a rectifier circuit, and a ripple filter. Calculations are given for the power amplifier transformer and the power transistors. An experimental model of the device was built and tested at the laboratory of "Electrical Equipment for Electric Railroads" department of LIIZhT (Kafedra "Elektrosnabzheniye elektricheskikh zheleznykh dorog" LIIZhT). With a supply voltage of 12 v and an output voltage of 110 v the device delivers 440 wt continuous power. To the pulsed mode an output current of 25-30 a can be obtained.

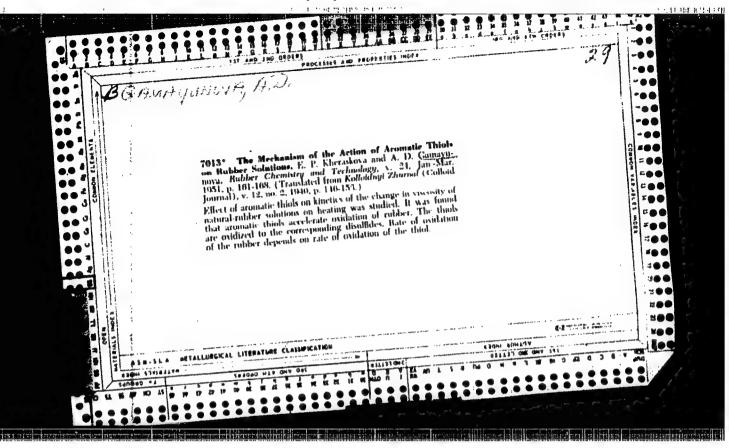
Cord 1/1 SOB CODE: 09/ SUBM DATE: none/ ORIG REF: 003 mis

GAMAYUNOV, V.I., inzh.

Distance-type a.c. contact network detector protection.
[Trudy] LHIZHT no.193:236-243 '62. (MIRA 15:12)

1. Leningradskiy institut inzhenerov zheleznodorozhnogo transporta.

(Electric railroads—Wires and wiring)



GAMAYUNOVA, A.P.; MOVIKOVA, A.G.

Resistance to oil of the bonding with the 88-N adhesive.
Kauch. i rez. 22 no.12:36-39 D '63. (MIRA 17:9)

1. Nauchno-issledovatel'skiy institut rezinovoy promyshlennosti.

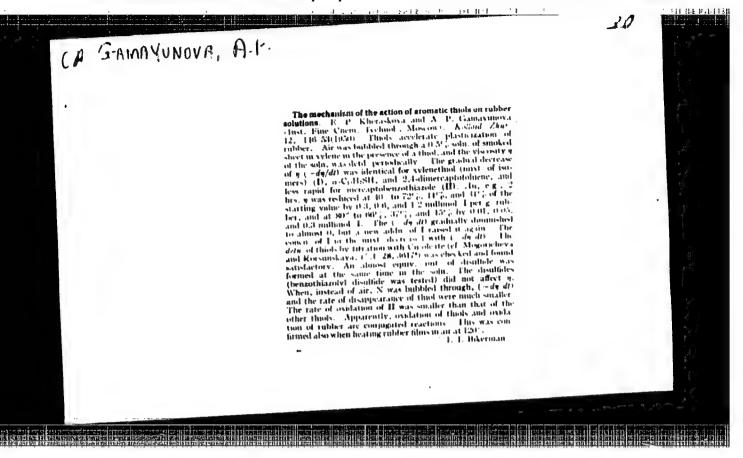
GAMAYUNCVA, A. P. Cand. Tech. Sci.

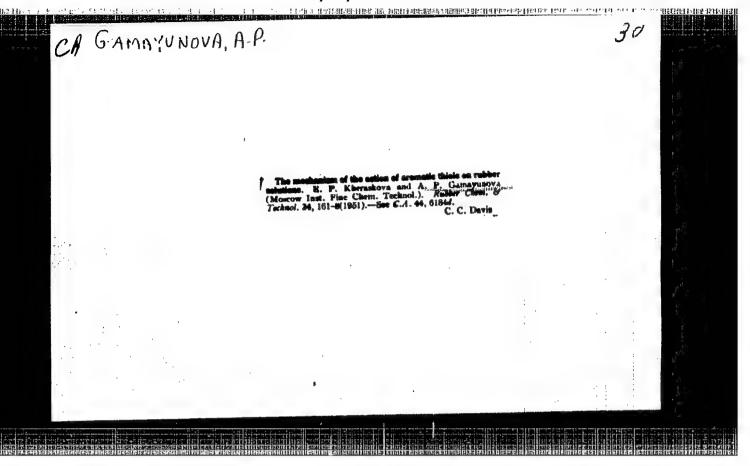
Dissertation: "Chemical Mastication of Natural Rubber with the Aid of Aromatic
Mercaptans." Moscow Inst of Fine Chemical Technology imeni M.V. Lomonoscv, 19 May 47.

SQ: Vechernyaya Moskva, May, 1947 (Project #17836)

Ganagemon, A.F. "Soils and plants of the desert", Vegtnik Akad, mask Mazakh. 323, 1948, No. 11, p. 37-89.

So: U-3042, 11 March 53, (Letopis 'nykh States, No. 9, 1949)





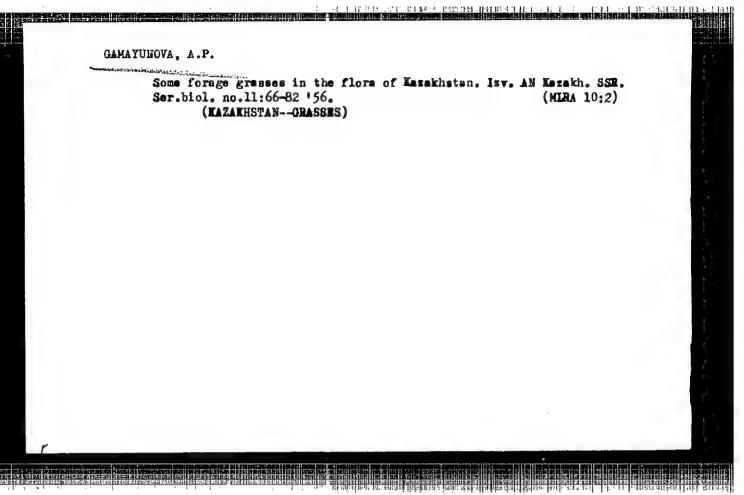
GAMAYUNOVA, A.P.; DOBROKHOTOVA, K.V.; KUZHETSOV, N.M. [deceased]; PAYLOV,
N.Y.; POITAKOV, P.P.; SUVOROVA, R.I., redaktor; ALFEROVA, P.F.,
tekhnicheskiy redaktor

[Flora of Lazakhatan] Flora Lazakhatana, Glav. red. N.V.Pavlov.
Sost. A.P.Gamaiunova, i dr. Alma-Ata. Vol.1. 1956. 352 p.

(MIRA 9:8)

1. Akademiya nauk Lazakhakoy SSR. Alma-Ata. Institut botaniki.
2. Deystvitel'nyy chlen AN LarSSR (for Pavlov)

(Kazakhatan-Botany)



GAMAYUNOVA, A.P.

Biology of the wormwood Artemisia cina Berg. Trudy Bot.inst. Ser.6 no.7:311-313 '59. (MIRA 13:4)

1. Institut botaniki AN KazSSR, Alma-Ata. (Chayan District--Wormwood)

BAYTENOV, M.B.; BYKOV, B.A.; VASIL'YEVA, A.N.; GAMATUNOVA, A.P.;
GOLOSKOKOV, V.P., kend.biolog.neuk; DORROKHOTOVA, K.V.;
KORNILOVA, V.S.; FISYUN, V.V.; PAYLOV, N.V., skademik, glavnyy
red.; KUBANSKAYA, Z.V., kend.biolog.neuk; SUVOROVA, R.I.,
red.; ALFEROVA, P.F., tekhn.red.

[Flore of Kazakhstan] Flora Kazakhstana. Glav.red. N.V.Pavlov.
Sost.M.B.Beitenov i dr. Alma-Ats, Izd-vo Akad.nauk Kazakhskoi
SSR. Vol.4. 1961. 545 p. (MIRA 14:4)

1. AM Kazakhskoy SSR (for Pavlov). 2. Chlen-korrespondent
AN KazSSR (for Bykov).

(Kazakhstan-Botany)

BAYTENOV, M.S.; VASIL'YEVA, A.N.; GAMAYUNOVA, A.P.; GOLOSKOKOV, V.P.;
ORAZOVA, A.; ROLDUGIN, I.I.; SEMIOTROCHEVA, N.L.; FISYUN, V.V.;
TEREKHOVA, V.I.; PAVLOV, N.V., akademik, glav. red.; BYKOV, B.A.,
red.; GOLOSKOKOV, V.P., kand. biolog. nauk, red.; KUBANSKAYA, Z.V.,
kand. biolog. nauk, red.; SUVOROVA, R.I., red.; ALFEROVA, P.F.,
tekhn. red.

[Flora of Kazakhstan] Flora Kazakhstana. Glav. red. N.V.Pavlov i dr. Alma-Ata, Izd-vo Akad. nauk Kazakhskoi SSR. Vol.5. 1961. 512 p. (MIRA 14:10)

1. AN Kazakhskoy SSR (for Pavlov). 2. Chlen-korrespondent AN Kazakhskoy SSR (for Bykov).

(Kazakhstan-Leguminosae)

VASIL'YEVA, A.N.; GAMAYUNOVA, A.P.; GOLOSKOKOV, V.P., kand. biol. nauk; ORAZOVA, A.; ROLDUGIN, I.I.; SEMIOTROCHEVA, N.L.; FISYUN, V.V.; MENZHULINA, N.A., red.; ALFEROVA, P.F., tekhn. red.

[Illustrated guide to plants of the family Leguminosae of Kazakhstan] Illiustrirovannyi opredelitel' rastenii semeistva bobovykh Kazakhstana. Alma-Ata, Izd-vo Akad. nauk Kazakhskoi SSR, 1962. 357 p. (MILA 15:6)

1. Akademiya nauk Kazakhskoy SSR, Alma-Ata. Institut botaniki. (Kazakhstan—Leguminosae)

VASIL'YEVA, A.N.; GAMAYUNCVA, A.P.; GOLOSKOKOV, V.P., kand. biol. nauk; KARMYSHEVA, N.Kh.; KOROVIN, Ye.P.; OBRAZOVA, A.; ROLDUGIN, I.I.; SEMIOTROCHEVA, N.L.; FISYUN, V.V.; PAVLOV, N.V., akademik, glav. red.; SUVOROVA, R.I., red.; ALFEROVA, P.F., tekhn. red.

[Flora of Kazakhstan] Flora Kazakhstana. Glav. red. N.V. Pavlov. Sost. A.N. Vasil'eva i dr. Alma-Ata, Izd-vo Akad. nauk Kazakh-skoi SSR. Vol.6. 1963. 462 p. (MIRA 16:6)

1. Akademiya mauk Kazakhskoy SSR(for Pavlov). (Kazakhstan-Botany)

VASIL'YEVA, A.N.; CAMAYUNOVA, A.P.; COLOSKOKOV, V.F., kand.
biol. nauk; IMITRITEVA, A.A.; KARMYSHEVA, N.KL.;
KUBANSKAYA, Z.V., kand. biol. nauk; OKAZOVA, '.; PAVLOV,
N.V., akademik; ROLDUGIN, I.I.; SEMIOTROVKHEVA, N.L.;
TEREKHOVA, V.I.: FISYUR, V.V.; TSAGOLOVA, V.G.; SUVO:OVA,
at.I., red.; IVANOVA, E.I., red.; BYKOV,B.A., red.

[Flora c' Kazakhstan] Flora Kazakhstana. Glav. red. N.V.
Pavlov. Jost. A.N.Vasil'yeva i dr. Alma-Ata, Izd-vo AN
Kazakh. SSH. Vol.7. 1964. 494 p. (MIRA 17:6)

1. Akademiya nauk Kaz.SSR (for Pavlov). 2. Chlen-korrespondent AN KazSSR (for Bykov).

VASIL'YEVA, A.N.; GAMAYUNOVA, A.P.; DMITRIYEVA, A.A.; GOLOSKOV, V.P., kand. biol. nauk; ZAYTSEVA, L.G.; KAHMYSHEVA, N.Kh. ORAZOVA, A.; PAVLOV, N.V., akademik; ROLDUGIN, I.I.; SEMICTROCHEVA, N.L.; TEREKHOVA, V.I.; FISYUN, V.V.; TSAGALOVA, V.G.; SUVOROVA, R.I., red.

[Flora of Kazakhstan] Flora Kazakhstana. Glav. red. N.V. Pavlov. Alma-Ata, Nauka. Vol.8. 1965. 444 p. (MIRA 18:5)

1. Akademiya nauk Kaz.SSR (for Pavlov).

nicke drukker og skrivet i blede skrivet i blede

OKANENKO, A.S.; BERSHTEYN, B.I.; POCHINOK, Kh.N.; GAMAYUEOVA, M.S.

Characteristics of biochemical processes occurring during "Gothic" degeneration of potatoes. Biokhim. pl. i ovoshch. no.4:164-182
158.

1. Institut fiziologii rasteniy i agrokhimii AN USSR.

(Potatoes--Diseases and posts)

S/061/61/000/017/027/166 B102/B138

AUTHORS: Ostrovskaya, L. K., Yakovenko, G. M., Gamayunova, M. S.

TITLE: Complex inadequacy of microelements in lime soils

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 17, 1961, 106, abstract

17792 (Tr. Biogeokhim. labor. In-t eekhimii i analit. khimii

AN SSSR, v. 11, 1960, 92 - 101)

TEXT: Excess quantities of lime in the soil not only reduce the mobility of Fe but also of many other microelements (Co, Mn, Zn, Cu, B). This is due to the increased pH value of these soils, to the adsorptive action of CaCO₃ particles and, probably, also to the effect of CaCO₃ on the

solubility and stability of chelate compounds of these elements. In this kind of soil there is a distinct shortage of Fe and Cu accessible to plant life. This is, of course, due to the very high stability of the chelate type of organocomplexes of these elements. [Abstracter's note: Complete translation.]

Card 1/1

EORTSOVA, M.P.; GAMAYUMOVA, P.B.; POPILAVSKAYA, A.V.; SHPICHKO, N.P.;
PAVIOV, G.D.; PODUNOVA, A.T.; LOVA, N.I.; AIEKSANDROVA, R.P.;
ATARMKOV, A.G.; VOROB'TEVA, Ye.I.; GAN'YANTS, E.M.; GELLER, D.Ta.;
PARSHINA, M.A.; FILINA, R.A.; CHUVELYAYEVA, Ye.S.

Selecting demulsifiers for crude oils processed in Grosnyi refineries.
Trudy Groznii no.4:17-26 '59. (MIRA 12:9)

1. Groznenskiy neftyanoy nauchno-issledovntel'skiy institut (Groznii)
(for Pavlov, Podunova, Lova).
(Groznyi--Petroleum--Refining)

MH ya Ker, A I

AUTHOR:

GAMAYUROV, A.I., NEYASOV, A.G.

PA - 2373

ጥ ተጥ LE:

Fluxed Sinter with Increased Magnesia Content. (Oflyusovannyy aglomerat s povyshennym soderzhaniyem magnezii, Russian).

PERIODICAL:

Stal', 1957, Vol 17, Nr 1, pp 20 - 24, (U.S.S.R.).

Received: 5 / 1957

Reviewed: 5 / 1957.

ABSTRACT :

It was the purpose of the present work to examine the proposals made by A.G. Neyasov for the increase of the magnesia content in the agglomerate for improving their strength and their reducibility. Agglomeration (sintering) tests are described. The mixing of the charge layer, the method of charging the bucket, and igniting the layer were investigated. It was found that the quality of agglomerates with additional charges (fluxes) depends in many respects on the magnesia content. in order to increase the constancy of the properties of the agglomerate obtained it is advisable to keep the following conditions on a constant level in the agglomerate layer: (CaO + MgO): (SiO₂ + Al₂O₃) and MgO: (CaO + MgO) or CaO: SiO₂ and MgO: (CaO + MgO). In order to increase strength and reducibility, the magnesia content, i.e. the ratio MgO: (CaO +MgO), must be increased. In order to be able to determine the optimum magnesia content in the agglomerate, it is necessary that tests be carried out with a 3 % MgO content and more in the agglomerate. (2 tables and 6 illustrations).

Card 1/2

CIA-RDP86-00513R000614210008-9" **APPROVED FOR RELEASE: 09/17/2001**

Fluxed Sinter with Increased Magnesia Content.

PA - 2373

ASSOCIATION: Metallurgical Combine of Magnitogorsk.

PRESENTED BY:

SUBMITTED: AVAILABLE:

Card 2/2

Library of Congress.

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VINOGRADOV, V.S., inzh.; AL'TSHULER, M.A., kand. tekhn. nauk; POLYAKOV,
V.G., inzh.; KUROCHKIN, A.N., inzh.; KARMAZIR, V.I., doktor tekhn.
nauk; ZAIKIN, S.A., inzh.; OSTROVSKIY, G.P., inzh.[deceased];
NAUMENKO, P.I., inzh.; BOBRUSHKIN, L.G., inzh.; RUSTAMOV, I.I.,
inzh.; SHIFRIN, I.I., inzh.; GOLOVANOV, G.A., inzh.; KRASOVSKIY,
L.A., inzh.; TSIMBALENKO, L.N., inzh.; RAVIKOVICH, I.M., inzh.;
BAZILEVICH, S.V., kand. tekhn.nauk; ZORIN, I.P., inzh.; ZUBAREV,
S.N., inzh.; TIKHOVIDOV, A.F., inzh.; SHITOV, I.S., inzh.;
GAMAYUROV, A.I., inzh.; KUSEMBAYEV, Kh.N., inzh.; DEKHTYAREV,
S.I., inzh.; VORONOV, I.S., inzh.; BURMIN, G.M., inzh.; BARYSHEV,
V.M., inzh.; GOLOVIN, Yu.P., inzh.; MARCHENKO, K.F., inzh.;
FYCHKOV, L.F., inzh.; NESTERENKO, A.M., inzh.; KABANOV, V.F.,
inzh.; PATRIKEYEV, N.N., inzh.[deceased]; ROSSMIT, A.F., inzh.;
SOSEDOV, O.O., inzh.; POKROVSKIY, M.A., inzh., retsenzent:
POLOTSK, S.M., red.; GOL'DIN, Ya.A., glav. red.; GOLUBYATNIKOVA,G.S.,
red. izd-va; BOLDYREVA, Z.A., tekhn. red.

[Iron mining and ore dressing industry] Zhelezorudnaia promyshlennost'. Moskva, Gosgortekhizdat, 1962. 439 p.
(MIRA 15:12)

1. Moscow. TSentral myy institut informatsii chernoy metallurgii. (Iron mines and mining) (Ore dressing)

RUDNEVA, A.V.; MALYSHEVA, T.Ya.; SOKOLOV, G.A.; GUL'TYAY, I.I.;

Prinimali uchastiye: GALATONOV, A.L.; GAMAYUROV, A.I.;

BABARYKIN, N.N.; KOSTIN, I.M.

Changes in the material composition of industrial sinter along the cake height. Stal' 22 no.1:5-9 Ja '62. (MIRA 14:12)

1. Institut metallurgii imeni A.A. Baykova (for Rudneva, Malysheva, Sokolov, Gul'tyay). 2. Magnitogorskiy metallurgicheskiy kombinat (for Galatonov, Gamayurov, Babarykin, Kostin).

(Sintering)

ZUDIN, V.M.; YAKOBSON, A.P.; KOSTIN, I.M.; GALATONOV, A.L.; GAMAYUROV, A.I.;
TSVERLING, A.L.; MALYSHEVA, T.Ya.; SOKOLOV, G.A.; RUDNEVA, A.V.;
TSYLEV, L.M.; GUL'TYAY, I.I.

Effect of the sintering temperature on the mineralogical composition of sinter and its metallurgical properties. Stal' 23 no.6:481-485 Je '63. (MIRA 16:10)

1. Magnitogorskiy metallurgicheskiy kombinat i Institut metallurgii im. A.A.Baykova.

AUTHOR: Chernokal'skiy, B. D.; Gamayurova, V. S.; Kamay, C. Kh.

ORG: Kazan Chemical Technology Institute im. S. M. Kirov (Kazanskiy khimiko
TITLE: Ionization constants of some alkylarsonic acids

SOURCE: Zhurnal obshchey khimii, v. 36, no. 9, 1966, 1677-1679

TOPIC TAGS: ionization constant, alkylarsonic acid, sodium compound, arsenic compound, alkali halide, ionization

ABSTRACT: The acids were prepared by the known reaction of sodium were determined by potentiometric titration. Values of the ionization constants are given in the table.

Card 1/2

UDC: 546.19+541.124.7

ACC NR: AP6	031391 Table 1 of alky	Table 1. Conditions of synthesis and properties of alkylarsonic acids						
	No. R	Alkyl halide used	Reaction time	Name and Address of the Owner, where the Owner, where	aure	pK ₂		Total State of the
	1 CH ₃ 2 C ₂ H ₅ C ₂ H ₅ CH ₃ =CH (CH ₃) ₂ CH CH ₃	CH ₃ I C ₂ Il ₃ Br C ₃ Il ₃ Br (CH ₃) ₂ CHBr C ₄ Il ₉ Br	Br 69 180	94—95 126—127 119 152—153 169—170 180—182	9° [1] 4.58 -96 [3] 4.72 -128 [3] 4.48 4.81 4.76 4.79 -168 [3] 4.43 2 Taft 0**	7.51		
	The ionization			Truc	REF: 005	1	* .	
SUB CODE:	07/ SUBM DAT	E: 12Ju165/	ORIG REF:		•		-	-
-		•.						